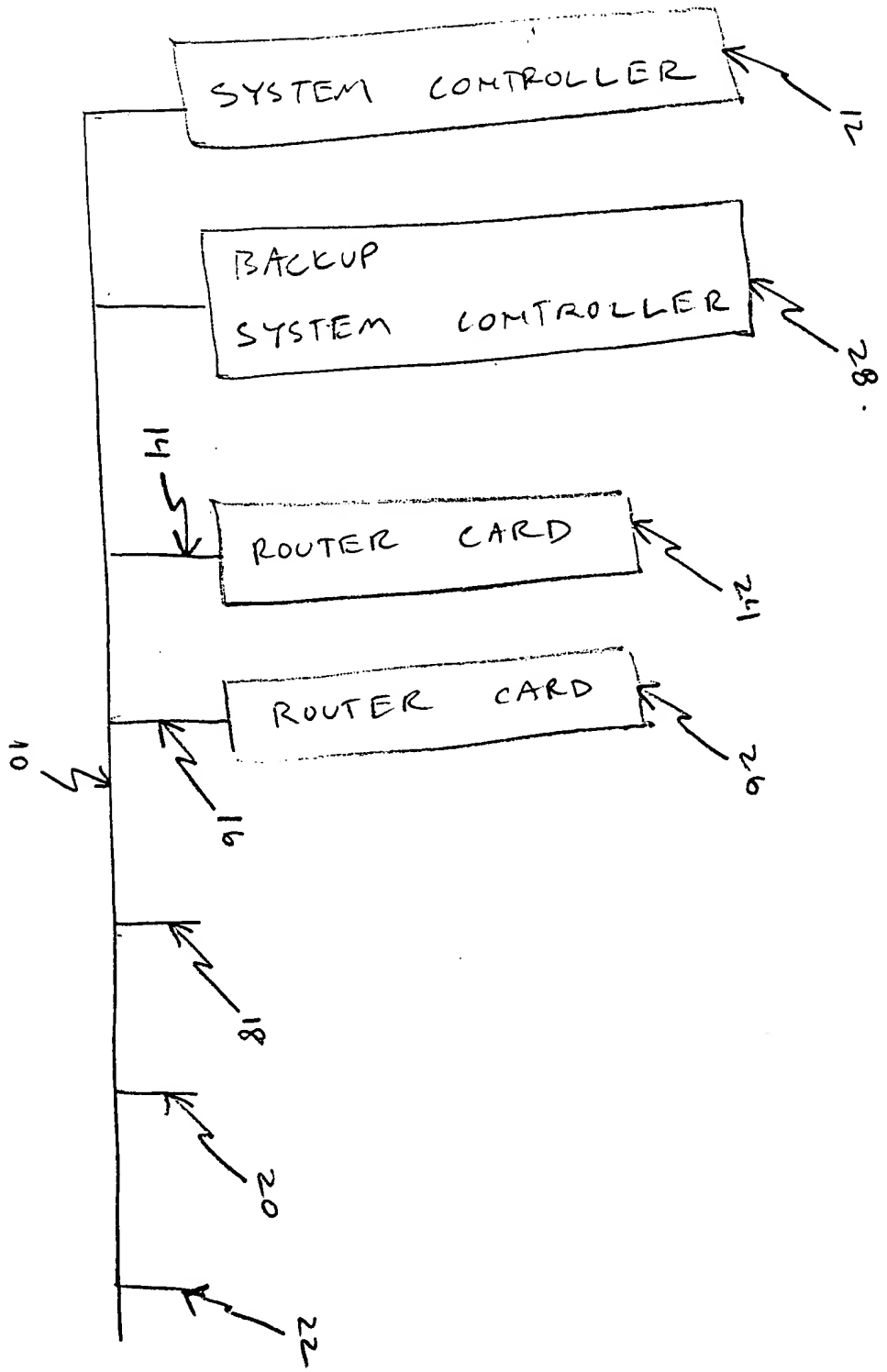

FIG. 1

CISCO-1858

cisco-1858

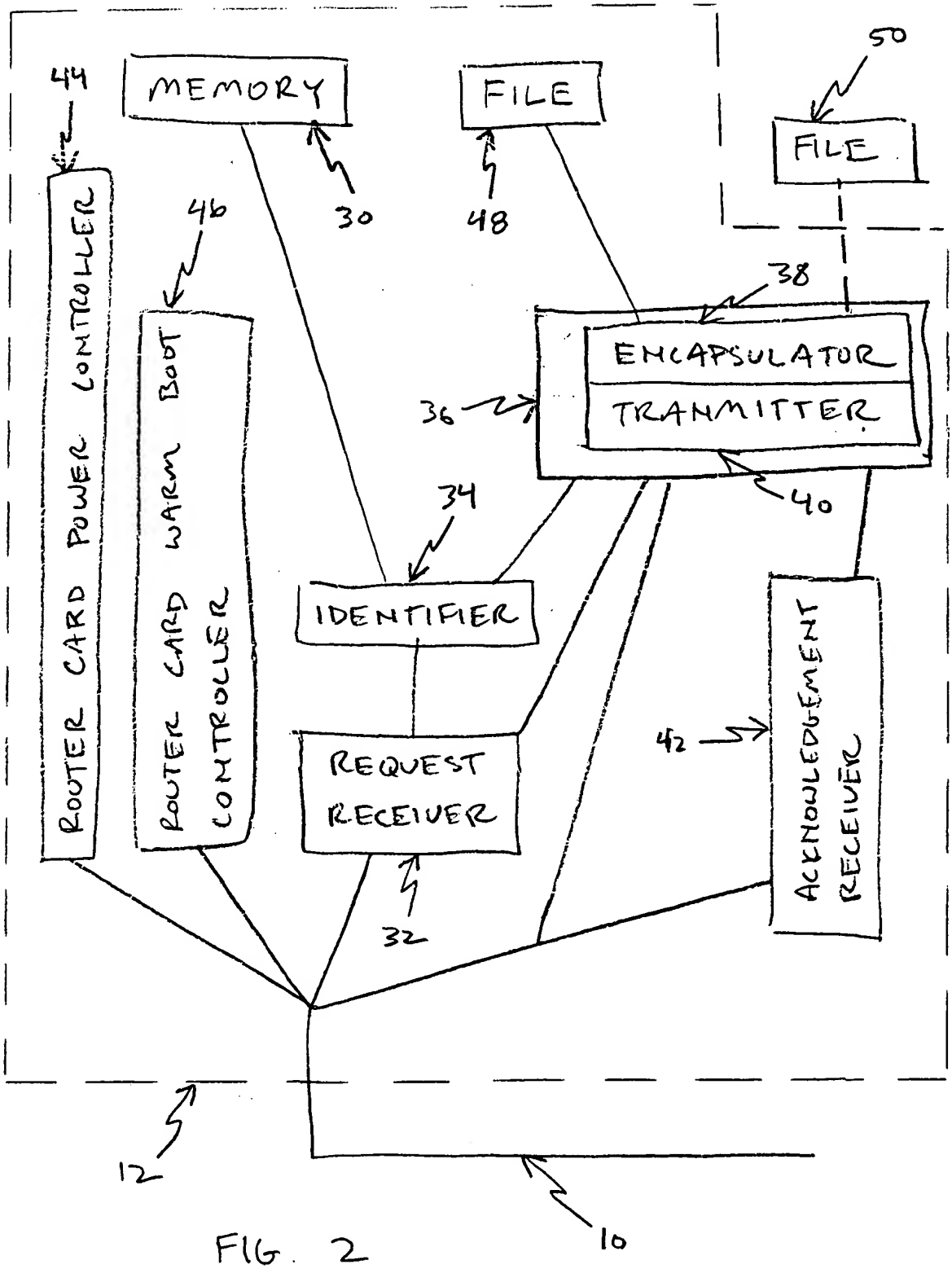

FIG. 2

CISCO-1858

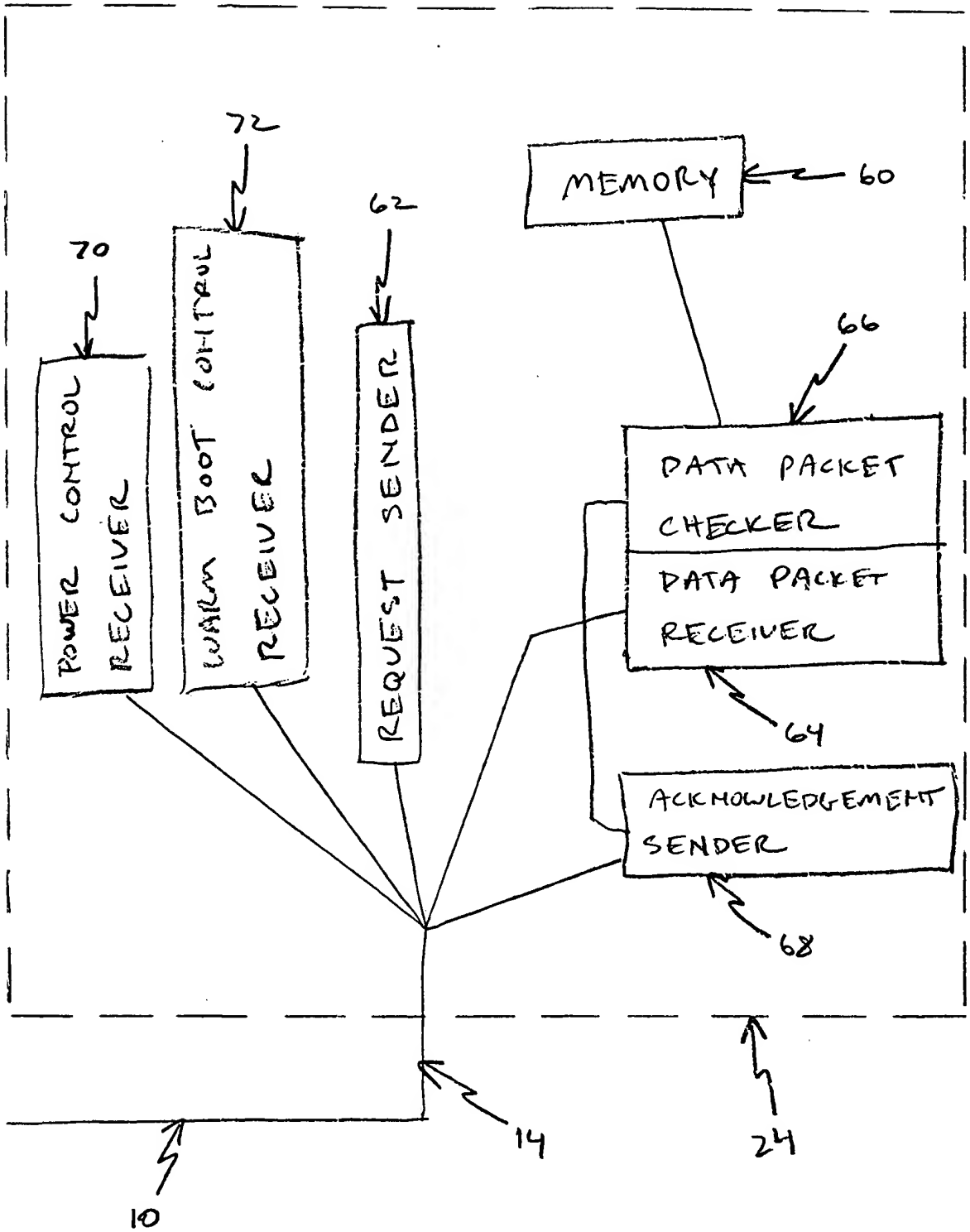

Fig. 3

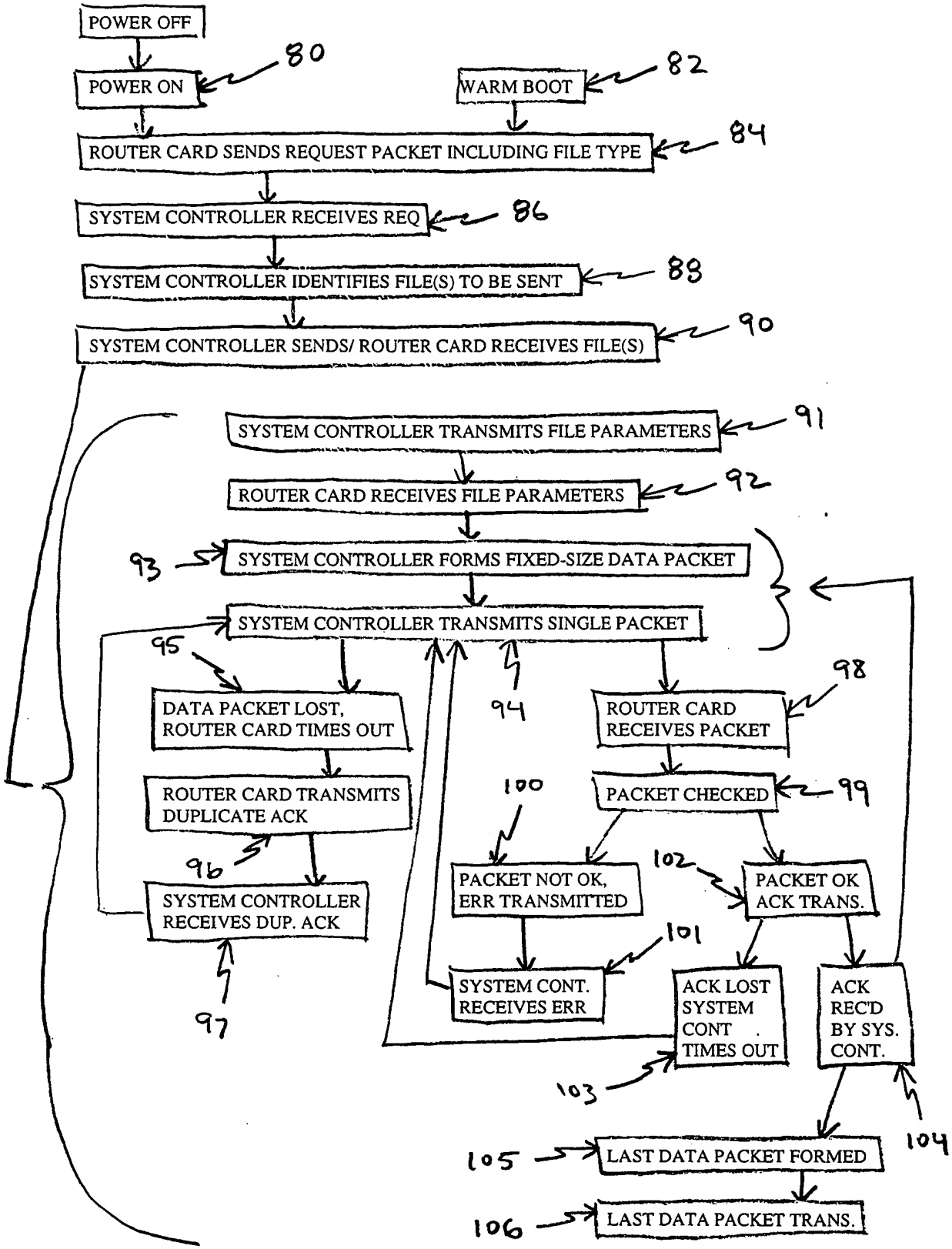
POWER OFF
POWER ON
80
WARM BOOT
82
ROUTER CARD SENDS REQUEST PACKET INCLUDING FILE TYPE
84
SYSTEM CONTROLLER RECEIVES REQ
86
SYSTEM CONTROLLER IDENTIFIES FILE(S) TO BE SENT
88
SYSTEM CONTROLLER SENDS/ ROUTER CARD RECEIVES FILE(S)
90
SYSTEM CONTROLLER TRANSMITS FILE PARAMETERS
91
ROUTER CARD RECEIVES FILE PARAMETERS
92
93
SYSTEM CONTROLLER FORMS FIXED-SIZE DATA PACKET
SYSTEM CONTROLLER TRANSMITS SINGLE PACKET
95
94
DATA PACKET LOST, ROUTER CARD TIMES OUT
ROUTER CARD TRANSMITS DUPLICATE ACK
96
SYSTEM CONTROLLER RECEIVES DUP. ACK
97
98
ROUTER CARD RECEIVES PACKET
PACKET CHECKED
99
100
PACKET NOT OK, ERR TRANSMITTED
102
PACKET OK ACK TRANS.
101
SYSTEM CONT. RECEIVES ERR
ACK LOST SYSTEM CONT . TIMES OUT
ACK REC'D BY SYS. CONT.
103
104
105
LAST DATA PACKET FORMED
106
LAST DATA PACKET TRANS.

FIG. 4

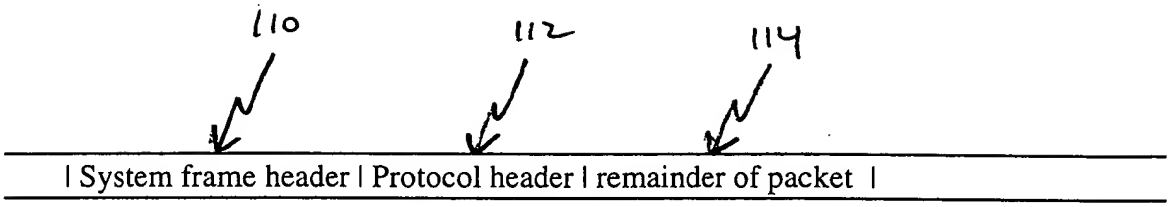
110
112
114
| System frame header | Protocol header | remainder of packet |

FIG. 5A

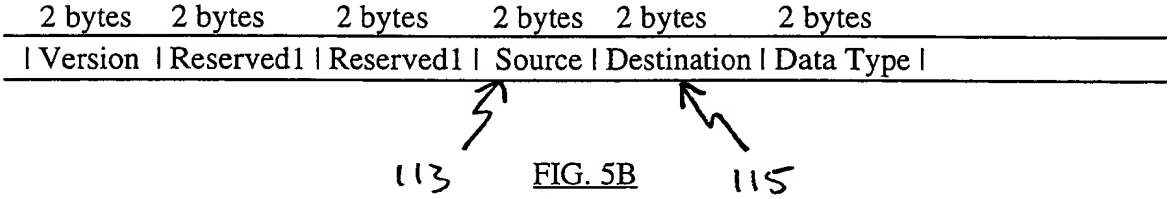
2 bytes
2 bytes
2 bytes
2 bytes
2 bytes
2 bytes
| Version | Reserved1 | Reserved1 | Source | Destination | Data Type |
113
115

FIG. 5B

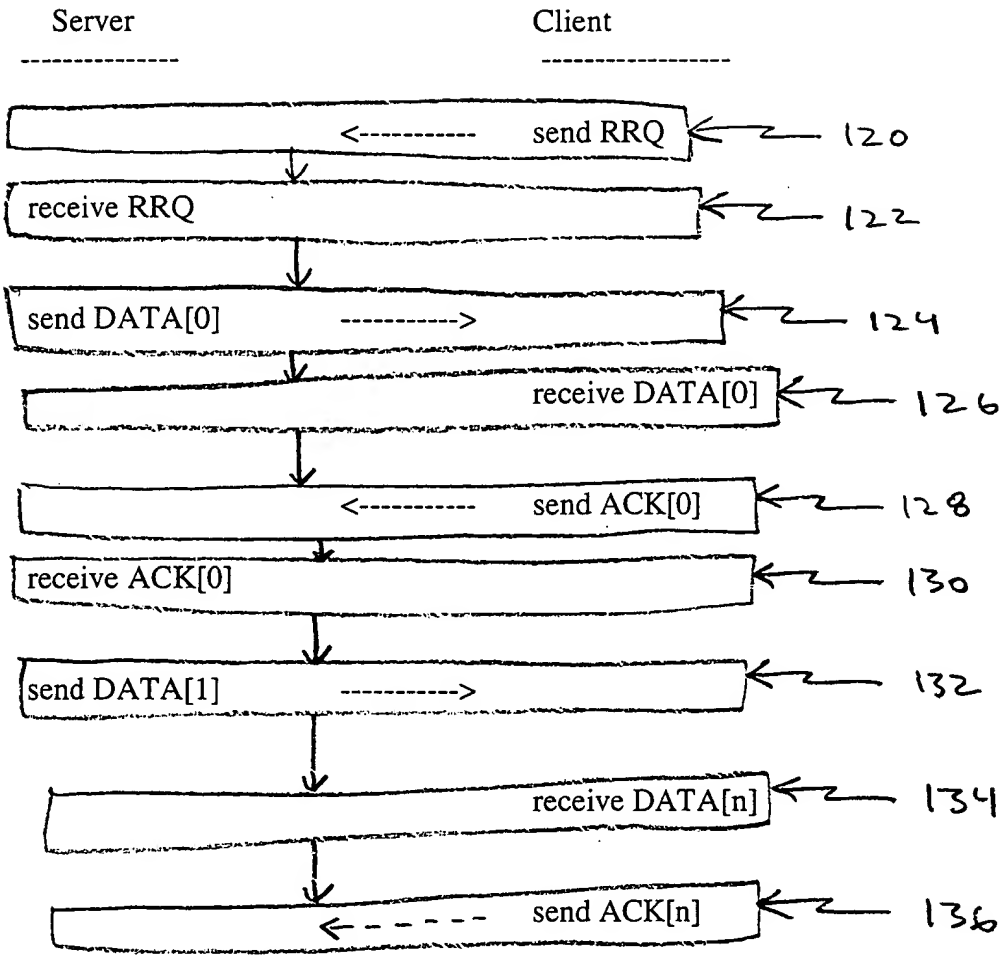
Server
Client
send RRQ
120
receive RRQ
122
send DATA[0]
124
receive DATA[0]
126
send ACK[0]
128
receive ACK[0]
130
send DATA[1]
132
receive DATA[n]
134
send ACK[n]
136

FIG. 6

CISCO-1858

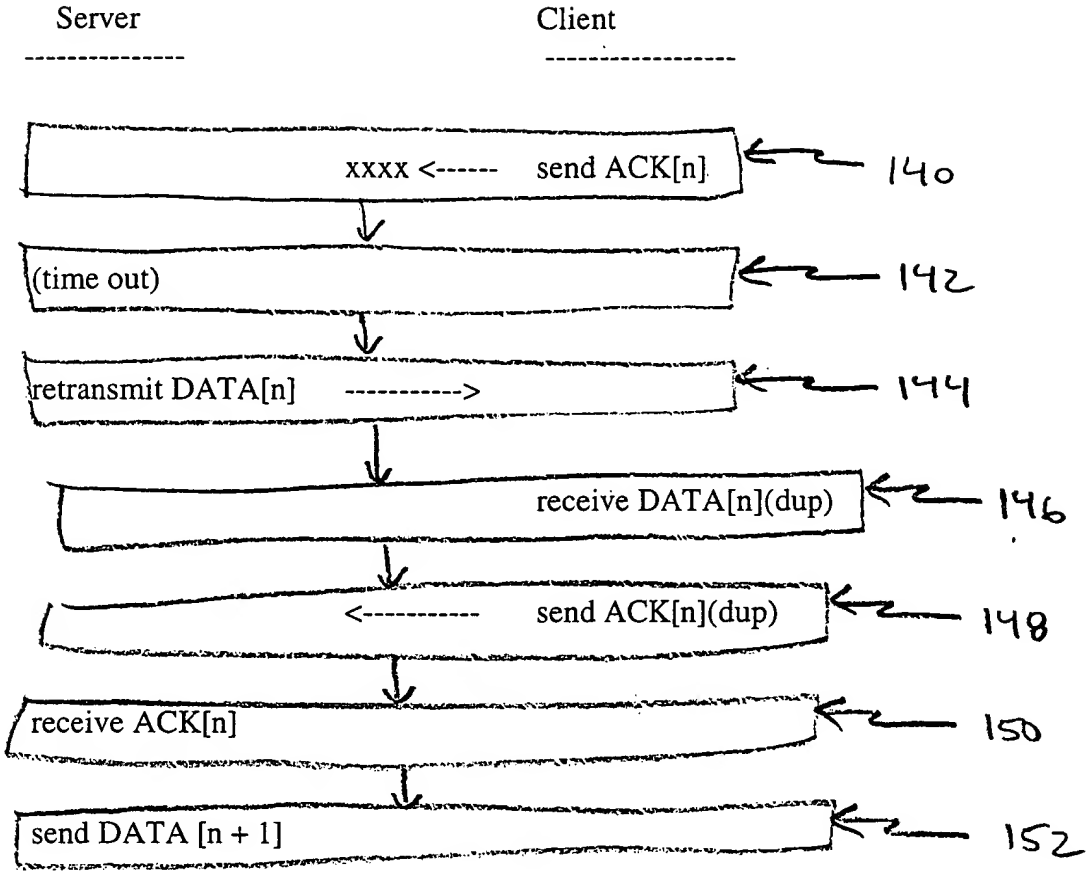

FIG. 7

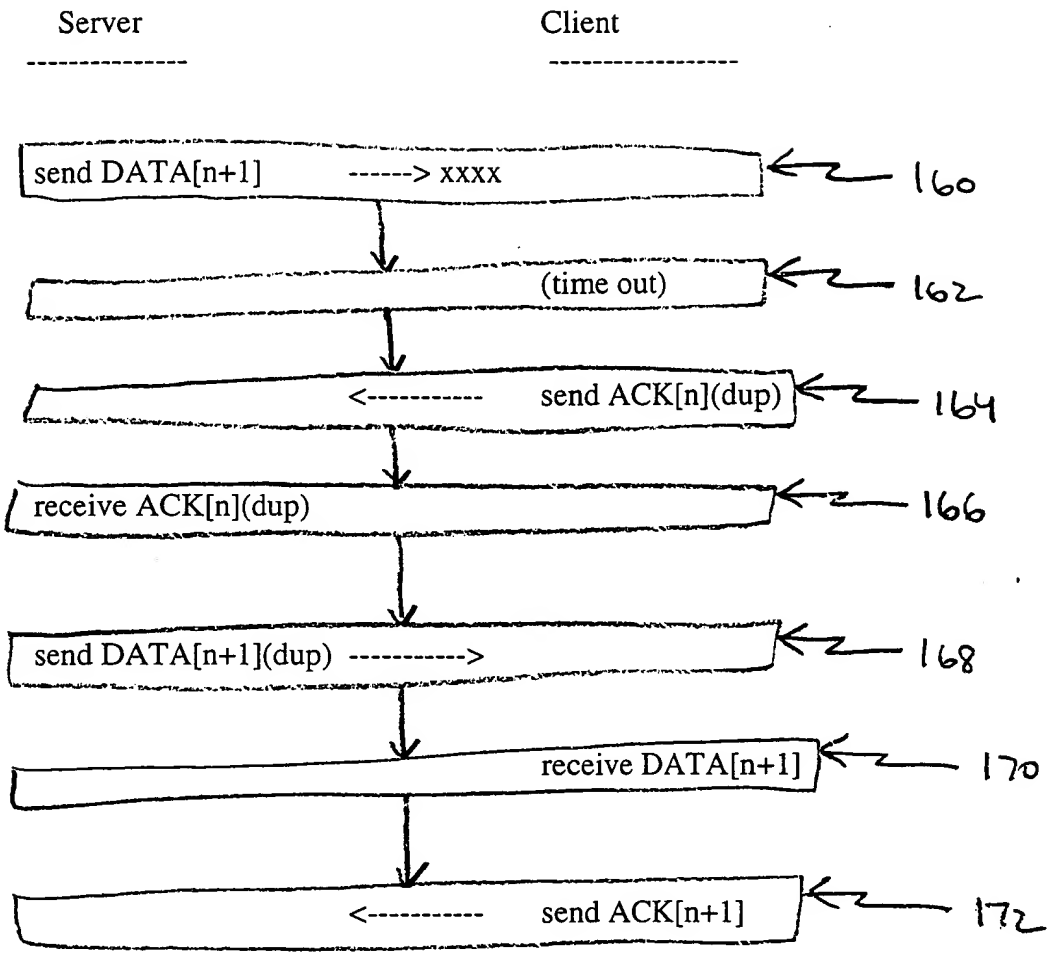
Server
Client
send DATA[n+1] ------> xxxx
160
(time out)
162
<---------- send ACK[n](dup)
164
receive ACK[n](dup)
166
send DATA[n+1](dup) ---------->
168
receive DATA[n+1]
170
<---------- send ACK[n+1]
172

FIG. 8

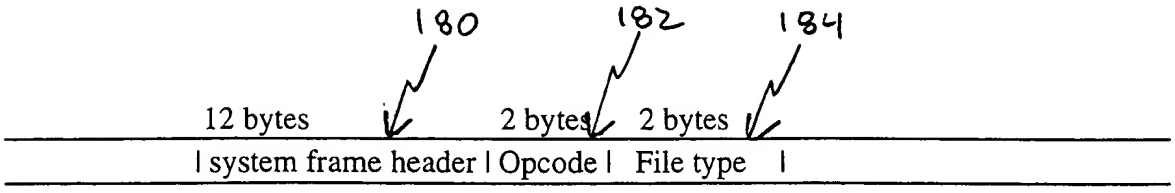

FIG. 9

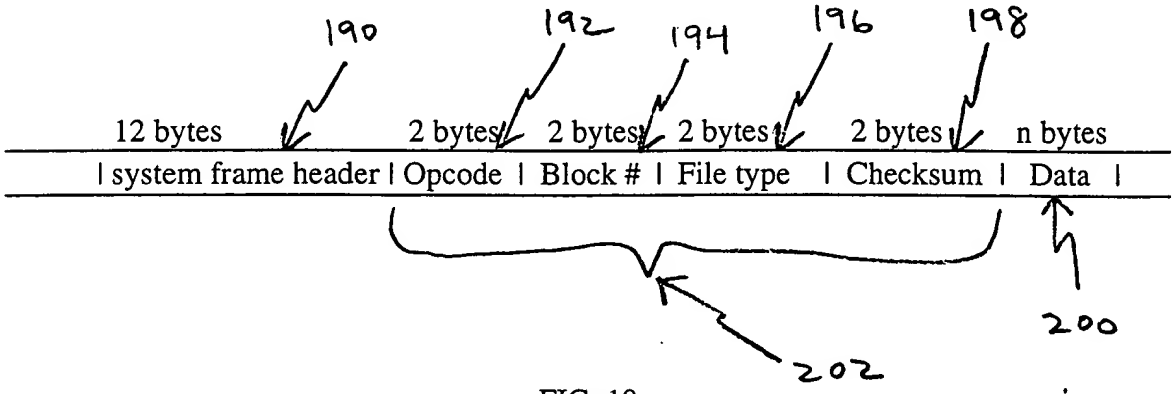

FIG. 10

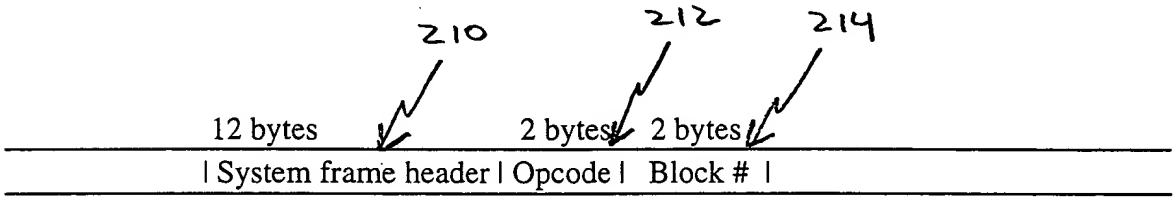

FIG. 11

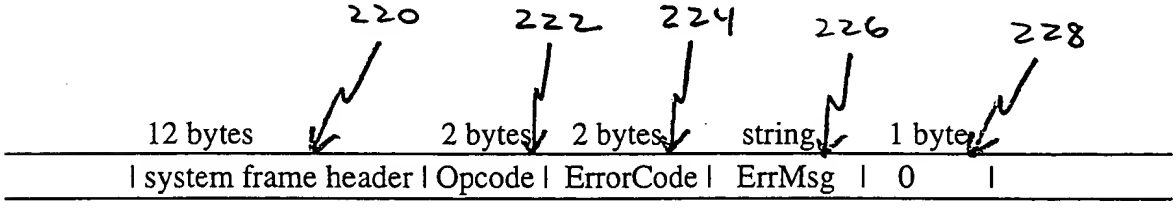

FIG. 12